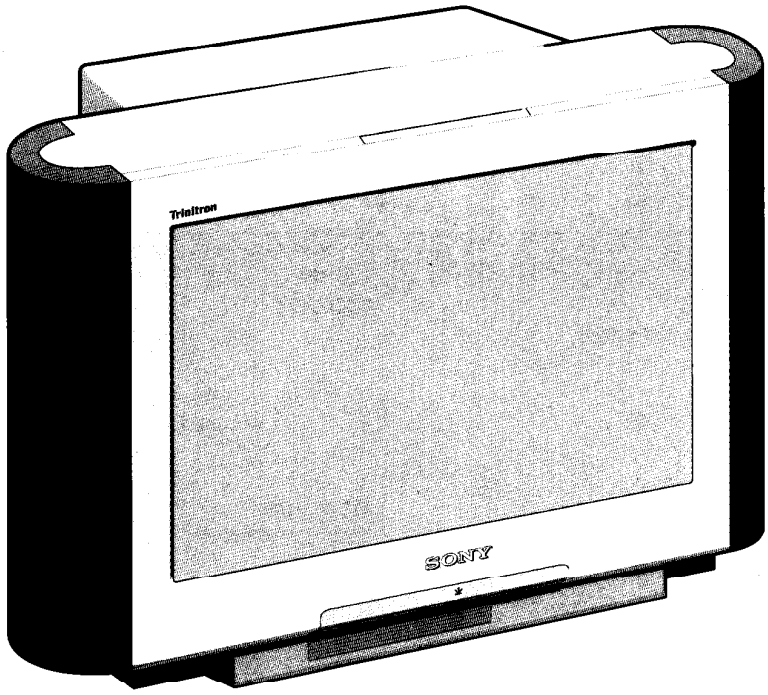
KV-29FC60A	RM-891	Italian	SCC-Q12C-A	**KV-29FC60E**	RM-891	Spanish	SCC-Q14C-A
KV-29FC60B	RM-891	French	SCC-Q13C-A	**KV-29FC60K**	RM-891	OIRT	SCC-Q16D-A
KV-29FC60D	RM-891	AEP	SCC-Q11C-A	**KV-29FC60R**	RM-891	OIRT	SCC-Q16C-A



MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H,D/K	GERMAN Stereo	ITALIA VHF : A-H2 (C) UHF : 21-69 PAL B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05,M1-M10,U1-U10 DK VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K,L,I	GERMAN/NICAM Stereo	L VHF : F02-F10 UHF : F21-F60 CABLE : B-Q B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, DK	KV-29FC60K GERMAN/NICAM Stereo KV-29FC60R GERMAN Stereo	B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21-R69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	29FC60A	29FC60B	29FC60D	29FC60E	29FC60K	29FC60R
Power Consumption	130W	130W	130W	130W	130W	130W

[PICTURE TUBE] Super Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
110 degree deflection

[FRONT]
Video output - phono jack
Audio inputs - phono jacks
S Video input - 4 pin DIN
Headphone jack : stereo minijack

Input/Output Terminals

[REAR]
- 1 / 21-pin Euro connector (CENELEC standard).
  - Inputs for Audio and Video signals.
  - Inputs for RGB.
  - Outputs of TV Video and Audio signals.
- 2/ 21-pin Euro connector
  - Inputs for Audio and Video signals.
  - Inputs for S video.
  - Outputs forVideo and Audio signals (selectable).
- 3/ 21-pin Euro connector
  - Inputs for Audio and Video signals.
  - Inputs for S video.

External speaker terminals : 2-pin DIN (5)

Sound output	2x25W (Music Power)
Power requirements	220 - 240V
Dimensions	Approx 800x581x496mm
Weight	Approx 53 kg
Supplied accessories	RM-891 Remote Commander (1) IEC designated R6 battery (2)
Other features	NICAM*, FASTEXT, TOPTEXT * (KV-29FC60B/29FC60E/29FC60K only)

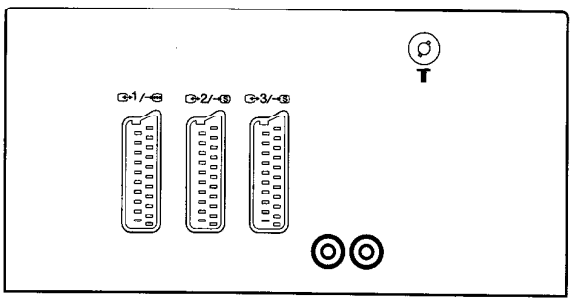
[RM-891]

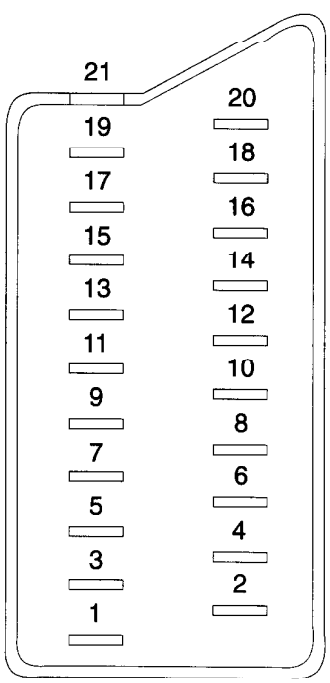
Remote control system	Infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Dimensions	Approx 56x210x24mm (w/h/d)
Weight	Approx 110g (Not including battery)

Design and specifications are subject to change without notice.

Model Name / Item	KV-29FC60A	KV-29FC60B	KV-29FC60D	KV-29FC60E	KV-29FC60K	KV-29FC60R
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PIP	ON	ON	ON	ON	ON	ON
RGB Priority	ON	ON	ON	ON	ON	ON
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF	OFF	OFF
Norm D/K	ON	ON	ON	ON	ON	ON
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	ON	OFF
Language Preset	Italian	French	German	Spanish	OIRT	OIRT

21 pin connector

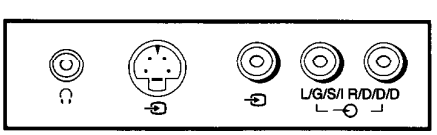




Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7 +/- 3dB, 75 ohms, positive
	–	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	–	–	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	–	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75 ohm, positive Sync.



SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Overview

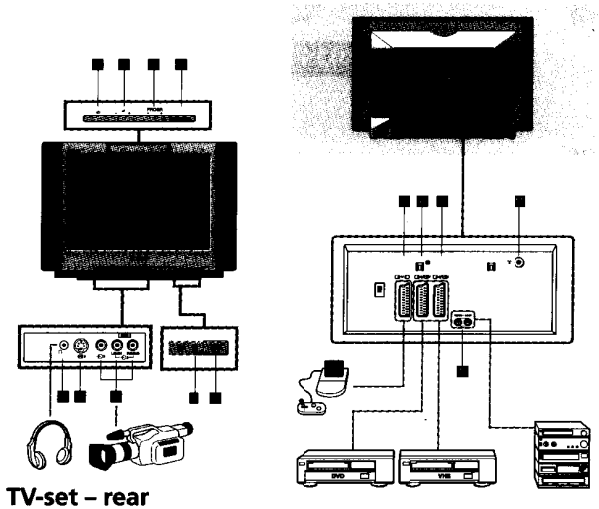
This section briefly describes the buttons and controls on the TV set and the Remote Control. Open the flaps at the front and back of his Instruction Manual for detailed illustrations. For more information refer to the page numbers given in the overview.

Remote Control

Symbol	Description	See page
❶ TV I/⏻	TV: standby mode on/off	32
❷	TV: on-screen display	32
	Teletext: index page	42
❸	Selecting of input source	44
	Teletext: Freezing a subpage	42
❹	PIP: Swapping the screens	41
❺	PIP: Selecting the source	41
❻	PIP: Switching on and off	41
❼ 1, 2, ... 9, 0	Number buttons	32
❽	Back to the channel last selected	32
❾	Selecting of screen format	32
❿	No function on this set	
⓫	Joystick for menu selection	31
	Press OK to confirm	
⓬ MENU	Switching on and off of Meru system	31
⓭ PROGR +/–	TV: Channel selection up- and downwards	32
	Teletext: Page selection up-and downwards	42
⓮ +/–	Volume control	32
⓯	Picture mode	32
⓰	Equaliser mode	32
⓱ -/--	Selection of double digit channel numbers	32
⓲	Freezing of TV picture	32
⓳	No function on this set	
⓴	Teletext: Switching on	42
㉑	TV: Selecting of TV mode	32
	Teletext: Switching off	42
㉒	Muting of sound on/off	32
㉓ VIDEO I/⏻	VCR: Standby mode	45
Buttons under cover		
㉔	Displaying of the time	32
㉕ CH +/–	VCR operation	45
VTR 1 2 3 4 MDP	Video equipment selector	
◀◀ ▶ ▶▶ ■ ❚❚ ●	Buttons for VCR operation	
㉖	Resetting of picture setting	32

TV-set – front and top

Symbol	Description	See page
A	Headphone jack	46
B	3	44
C	3, 3	44
D ⏻	Indicator for Standby mode	32
E	Power switch	32
F	Selecting of input source	44
G +/–	Volume control	32
H PROGR +/–	Channel selection up- and downwards	32
I CONTROL	Control panel: Switching on/off	32



TV-set – rear

Symbol	Description	See page
J	1/1	44
K	2/2	44
L	3/3	44
M		Aerial socket	30
N	L/G/S/I R/D/D/D	Audio phono jacks	46

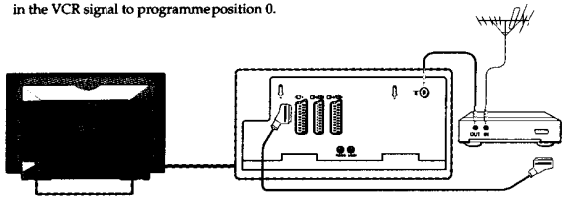
The following chapter contains all the steps necessary when first installing your TV and the basic TV functions.

Step 1 Installation

A Connecting the TV Set

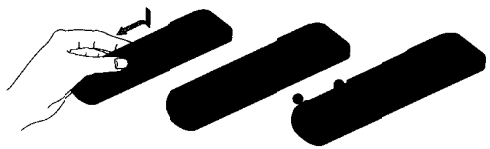
1 Connect the TV set to the mains socket (220-240 V.AC, 50 Hz).
2a Connect a conventional aerial cable to the socket marked ⊤ M on the rear of the TV set.
or
2b Connect your Satellite Receiver to one of the Scart connectors J K L of the TV set.

When connecting a VCR to your TV set:
We recommend that you use the preset function Manual Programme Preset (page 33) to tune in the VCR signal to programme position 0.



B Inserting the Batteries into the Remote Control

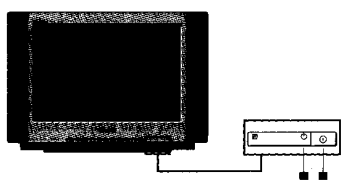
Make sure to insert the batteries using the correct polarities.
Dispose of exhausted batteries according to your local regulations.



C Switching on the TV Set

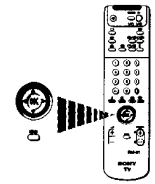
- Press the switch ⏻ E at the front of the TV set.

If the standby mode indicator ⏻ D on the TV is lit, press TV I/⏻ ● on the Remote Control to switch on the TV set.



Step 2 Basic Presetting

A The Menu System



Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

- Press MENU ● to switch the menu on and off.
- Use ◄, ►, ▲, ▼ of the joystick ● to select within the menu system.
- Press OK to store.
- When menu is switched off:
  Press ◄ to return to the last menu screen.

B Selecting Language and Country

1 Press the MENU ● button.
The menu Language/Country appears on the screen.
2 Push the joystick ● to ►. Push the joystick ● to ▼ to select the language. Press OK ●.
The menus appear in the selected language.
3 Push the joystick ● to ▼ to select Country. Push the joystick ● to ►.
4 Select the country in which you will operate the TV set using ▼ or ▲.

Select Off if you wish an automatic tuning **without** ACI (fast presetting with a given channel sequence).
- Confirm by pressing OK ●.

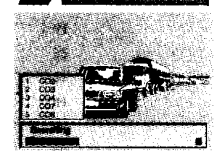
The menu Auto Tuning appears.

C Automatic Tuning In of Channels

- Push the joystick ● to ► for more than 2 sec..

After all available channels are stored, the TV goes back to the programme position with which you started the automatic tuning. Your TV is now ready for use.

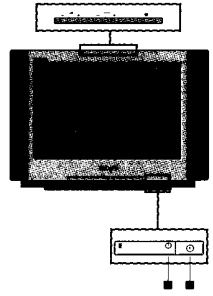
- To stop the automatic tuning: Press OK ●.
- If you wish to change the sequence of the stored channels, go to Sorting Programme Positons in Advanced Presetting.
- If you need to change or repeat the tuning afterwards (e.g. when you move house) : select the menu Auto Tuning in the Set Up 🖃 menu.

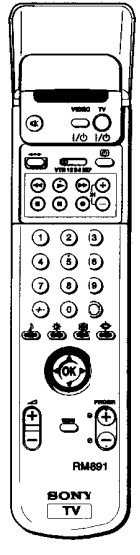


Step 3 Basic TV operation

This section explains the most important functions for the daily use of your TV set. When using the control panel on the top of the TV set, first press CONTROL ■, then F, G or H.

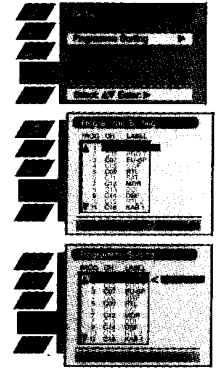
Function	Operation
Switching on/off	• Press ⏻ E on the TV set. To save energy, we recommend to switch off the TV completely when set is not in use.
Switching off temporarily (Standby mode)	• Press TV I/⏻ ●. TV is now in standby mode. Indicator ⏻ D lights up. After 15 min. without any TV signal and no pressing of a button, the TV automatically goes into standby mode.
Switch on from standby mode	• Press TV I/⏻ ●, PROGR +/– ● H or any number button ●.
Selecting channels	• Press PROGR +/- ● H or the number buttons ●. For a double digit number first press -/– ●, then the two number buttons.
Using the Channel overview	• Press OK ●. Push to ▼ or ▲ to select a channel, push to ▶ to confirm.
Going to the channel last selected	• Press ◯ ●.
Adjusting the volume	• Press + or – ● G.
Muting the sound	• Press ✕ ● to switch sound off or on.
Selecting Equaliser mode (See also page 39)	• Press ♪ repeatedly ● to select one of the following modes: Personal, Vocal, Jazz, Rock, Pop or Flat
Selecting Picture mode (see also page 38)	• Press ✱ repeatedly ● to select one of the following modes: Personal, Movie or Live.
Freezing the picture	• Press ⏭ ● if you wish to make a note of an information, e.g., a telephone number. Press again to return to the normal TV screen.
Changing the screen format	• Press ◈ ● repeatedly to select 4:3 or 16:9 (imitation of wide screen format).
Resetting picture/sound settings to factory levels	• Open the cover of the Remote Control. Press ●●● ●.
Displaying on-screen indications	• Press i+ ● to switch indications on or off.
Displaying the time (only when teletext is broadcast)	• Open the cover of the Remote Control. Press ⏲ ● to switch time on or off.
Using Teletext (see also page 42)	• Press ▤ ● to switch on. Press ▢ ● to switch off. Select a page using the number buttons ●. E.g. for page 125 press 1,2 and 5. Select the index page by pressing i+ ●.
Viewing the input signal of a connected device (see also page 44)	• Press ⇨ ● repeatedly to select the desired input source. Press ▢ ● to return to the TV picture.





Advanced Presetting

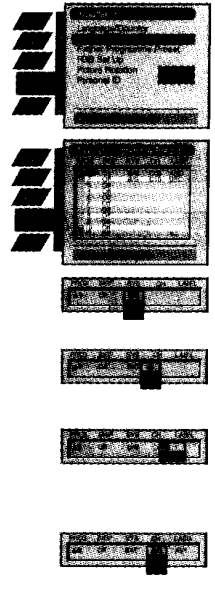
Sorting of Programme Positions



After having used Automatic Tuning of channels you may wish to rearrange the order of the channels

1 Press MENU. Select the symbol using ▼. Push to ▶.
2 Select Programme Sorting using ▼. Push to ▶ to enter.
3 Select the programme position of the channel you wish to sort using ▲ or ▼. Push to ▶ to enter.
4 Move the channel to the new programme position using ▲ or ▼. Store by pressing OK.
The channel is now at the new position. The other programme positions move accordingly.
5 To sort other programmepositions repeat steps 3 to 4.
6 Press MENU to return to the normal TV screen.

Manual Tuning In of Channels



Use this function to preset channels or a video input source one by one to programme positions of your choice.

1 Press MENU. Select the symbol using ▼ Push to ▶.
2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter
3 Select the programme position by pushing to ▲ or ▼. Push twice to ▶.
The column SYS is highlighted.
4 Select the TV system using ▲ or ▼. Push to ▶ to enter.
Available TV systems are B/G for western European countries, D/K for eastern European countries, EXT for a video input source (please go to step 5c after selecting EXT)
The column CH is highlighted.
5 Select your method for the channel tuning using ▲ or ▼. Push to ▶ to enter.
You have the choice between C for a terrestrial channel, S for a cable channel, F for direct frequency input.

a Direct Channel Input - S, C or F

For channel numbers input a two digit number, for the channel frequency a three digit number.

- Select the two or three digits by using the number buttons 0 to 9.
- To start the search and to store the channel, press OK.
- To preset other channels repeat steps 3 to 5a.

b Channel search (SEARCH)

Use Search if you do not know the channel number or frequency

- Start the search for the next available channel by pushing to ▼.
- Store the channel by pressing OK or continue the search by pushing again to ▼.
- To search for other channels repeat steps 3 to 5b.

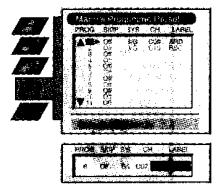
c For video input sources (EXT)

- Select the Video Input source using ▲ or ▼.
- Store your selection by pressing OK.
- To allocate other sources repeat steps 3 to 5c.

6 Press MENU to return to the normal TV screen.

Captioning a Station Name

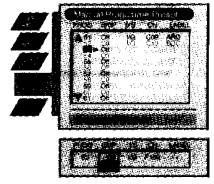
i During presetting the channels are usually labelled automatically.
You can, however, individually name a channel or a video input source.



1 Press MENU. Select the symbol using ▼. Push to ▶.
2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.
3 Select the programme position of the channel or the video source you wish to label by pushing to ▼ or ▲. Push repeatedly to ▶ until the first element of the position LABEL is highlighted.
4 Select a number, a letter, + or a blank using ▲ or ▼. Push to ▶ to confirm.
Select the other four characters in the same way.
5 Store your selection by pressing OK.
6 To label other channels or video sources repeat steps 3 to 5.
7 Press MENU to return to the normal TV screen.

Skipping of Programme Positions

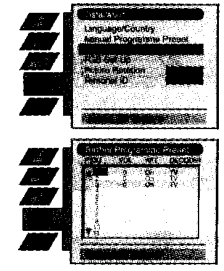
i In case of 100 programme positions there may be unused positions, which you can skip in the menu Manual Programme Preset. When changing channels with the PROGR +/– buttons they do then not appear.
You can, however, still select them using the number buttons.



1 Press MENU. Select the symbol using ▼. Push to ▶.
2 Select Installation using ▼. Push to ▶ to enter.
Select Manual Programme Preset using ▼. Push to ▶ to enter.
3 Select the programme position you wish to skip by pushing to ▲ or ▼.
Push to ▶ to enter.
The column SKIP is highlighted.
4 Select ON using ▼.
5 Store by pressing OK.
6 To skip other programme positions repeat steps 3 to 5.
7 Press MENU to return to the normal TV screen.

Using of Further Programme Preset

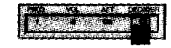
i Using the menu Further Programme Preset you can
a) individually adjust the volume level of each channel.
b) improve the quality of a weak channel (picture or sound distortions) with manual fine tuning.
c) preset the AV output for programme positions of those channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected VCR records the unscrambled signal.



1 Press MENU. Select the symbol using ▼. Push to ▶.
2 Select Installation using ▼. Push to ▶ to enter. Select Further Programme Preset using ▼. Push to ▶ to enter.
3 Select the programme position of the desired channel by pushing to ▲ or ▼.
Push repeatedly to ▶ to select:
VOL (Volume Offset), AFT (Automatic Fine Tuning) or DECODER.
The selected item changes colour.

4a **VOL**
Push to ▲ or ▼ to adjust the volume level (range -7 to +7) of the channel.
Store by pressing OK.
Repeat steps 3 and 4a if you wish to adjust the volume level of other channels.

b **AFT**
Push to ▲ or ▼ to fine ture the channel (range -15 to +15). Store by pressing OK. Repeat steps 3 and 4b if you wish to fine tune other channels.



c **DECODER**
Push to ▲ or ▼ to select AV1 (Euro AV socket 1) or AV2 (Euro AV socket 2) as output for the video soure on this programme position. Store by pressing OK.
Repeat steps 3 and 4c if you wish to preset the AV output of other video sources.

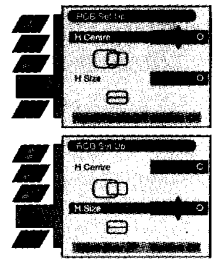
i Should you use Auto Tuning afterwards, this setting will be cancelled.

5 Press MENU to return to the normal TV screen.

Adjusting the Picture Geometry for an RGB Source

i When connecting an RGB source such as a Sony playstation you may need to readjust the picture geometry.

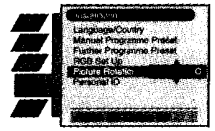
1 Select the connected RGB source ⇦ by pressing ⇦ repeatedly.
2 Press MENU. Select the symbol 🧰 using ▼. Push to ▶.
3 Select Installation using ▼. Push to ▶ to enter. Select RGB Set Up using ▼. Push to ▶ to enter.
4 Select H Centre by pushing to ▶. Adjust the centre of the picture (range from -10 to +10) using ▲ or ▼. Store by pressing OK.
5 Select H Size using ▼. Push to ▶ to enter. Adjust the horizontal coordinates (range from -10 to +10) using ▲ or ▼. Store by pressing OK.
6 Press MENU to return to the normal TV screen.



Adjusting the Picture Rotation

i Because of the earth magnetism the picture might slant. In this case you can readjust the picture.

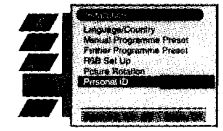
1 Press MENU. Select the symbol 🧰 using ▼. Push to ▶.
2 Select Installation using ▼. Push to ▶ to enter. Select Picture Rotation using ▼. Push to ▶ to enter.
3 Adjust the Picture Rotation (adjusting range -5 to +5) by pushing to ▲ or ▼. Store by pressing OK.
4 Press MENU to return to the normal TV picture.



Inputting Your Personal ID

i You can programme your TV with a safety code, so that you can be traced if your TV is stolen and recovered. This code can only be input once! Make sure to write it down in this Instruction Manual.

1 Press MENU. Select the symbol 🧰 using ▼. Push to ▶.
2 Select Installation using ▼. Push to ▶ to enter. Select Personal ID using ▼. Push to ▶ to enter.
3a Select the first of a total of 11 characters (letter, number, + or a blank) by using ▲ or ▼.
b Push to ▶ to go to the next character.
c Repeat a and b for all characters.
4 Store by pressing OK.
5 Press MENU to return to the normal TV screen.



Presetting and Labelling of Input Sources

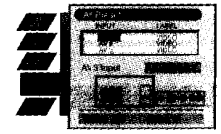
1 Press MENU. Select the symbol 🧰 using ▼. Push to ▶.
2 Select AV Preset using ▼. Push to ▶ to enter.
3 Select the desired AV input (AV 1, 2 or 3) using ▲ or ▼. Push to ▶ enter.

i After each step you have the choice between memorizing (press OK) or going to the next item (push to ▶).

4 **To label the source:**
a Push to ▶ to select Label.
b Select the first character using ▲ or ▼. Push to ▶ to confirm.
c Repeat step b to select the other 4 characters.
d Store by pressing OK.
5 Repeat steps 3 to 4 for the other AV inputs.
6 **Selecting the AV3 Input Source:**

i In case of AV3 you have the choice between the front AV3 soccets B C or the rear Scart 3 C connector.

a Push to ▼ to select AV3 Input. Push to ▶ to enter.
b Select Front or Rear using ▲ or ▼.
c Store by pressing OK.
7 Press MENU to return to the normal TV screen.



Advanced TV operation

Adjusting Picture and Sound

Picture and sound are adjusted at the factory. You can, however, adjust them individually.

1 Press MENU.
Select the symbol for Picture or for Sound using ▲ or ▼.
Push to ▶ to enter.
The menu Picture or Sound Control is displayed.

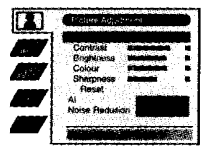
2 Select the desired item using ▲ or ▼. Push to ▶ to enter.

3 Adjust the selected item using ▲, ▼, ▶ and ◀. Press OK to store.

Refer to the tables on this and the following page for more information.

4 Repeat steps 2 and 3 to adjust other items.

5 Press MENU to return to the normal TV screen.



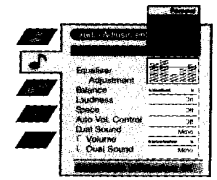
Picture Control

Item	Effect/Operation
Picture Mode	▼ Personal (for individual settings) Movie (for movie broadcasts) ▲ Live (for live broadcasts)
Contrast	Less ◀ ▶ More
Brightness*	Darker ◀ ▶ Brighter
Colour*	Less ◀ ▶ More
Hue**	Reddish ◀ ▶ Greenish
Sharpness*	Softer ◀ ▶ Sharper
Reset	Resets picture to the factory preset levels
AI (Artificial Intelligence)	▼ Off: normal ▲ On: Automatic optimization of contrast level according to the TV signal
Noise Reduction	▼ Off: Normal ▲ On: Reduces picture noise in case of a weak broadcasting signal

* Only if Personal is selected in Picture Mode
** Only available for NTSC colour signal (e.g. US video tapes)

Sound Control

Item	Effect/Operation
Equaliser Mode	Select between the following sound settings ▼ Personal Vocal Jazz Rock Pop ▲ Flat (fixed setting, cannot be adjusted)
Equaliser adjustment	You can adjust the mode selected in Equaliser mode by cutting and boosting of 5 selected frequency bands. Only the changes made in Personal can be stored, the others return to factory setting. ● Select the desired bar using ▶ or ◀, adjust using ▲ and ▼. Press OK to store.
Balance	▲ More left ▼ More right
Loudness	▲ Off: Normal ▼ On: For music broadcasts
Space	▲ Off: Normal ▼ On: Special acoustic effect
Auto Volume Control	▼ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisements) ▲ Off: volume level changes according to the broadcast signal
Dual Sound	● For a bilingual broadcast: A for channel 1◀ ▶B for channel 2 ● For a stereo broadcast: Stereo◀ ▶Mono
Headphones Volume Dual Sound	Less ◀ ▶More ● For a bilingual broadcast: A for channel 1◀ ▶B for channel 2 ● For a stereo broadcast: Stereo◀ ▶Mono ● PIP When PIP is switched on, you can additionally select the PIP sound for the headphones

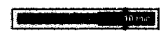


Using the Features Menu

1 Press MENU. Select the symbol using ▼. Push to ▶.
2 Select the desired menu item using ▼. Push to ▶ to enter.
3 Select the desired setting using ▲ or ▼.
4 Store by pressing OK.
5 Press MENU to return to the normal TV screen.

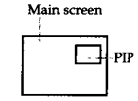
Features

Item	Effect/Operation
PIP Position	See next page for details
Sleep Timer	You can select a time period after which the TV switches itself into standby mode ▲ Off 10 min. 20 min. ⋮ ▼ 90 min.
Parental Lock	▼ Off: Normal mode ▲ On: TV can only be switched on out of standby-mode using the Remote Commander, the buttons on the TV do not work.
AV2Source	You can select the source to be output from the Scart connector ⇨2/⇦2. In this way you can record from this socket while watching another source. ▲ TV audio/video signal from the aerial T AV1 audio/video signal from Scart 1 AV2 audio/video signal from Scart 2 ▼ AV3 audio/video signal from front or rear connectors



Using Picture-in-Picture

Picture-in-Picture (PIP) lets you display a second, small screen within the main TV picture. In this way you can watch the video output from any connected equipment, e.g., from a VCR, while watching TV.



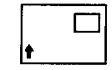
Switching PIP on and off

- Press ⧉/◨ ⓪.

The small screen is displayed.

The source of the small screen is the one last used when the TV was on.

- Press ⧉/◨ ⓪ again to switch PIP off.



Selecting a PIP source

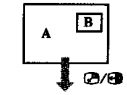
1 Press ⬆ ⓪.

The symbol ⬆ is displayed in the bottom left-hand corner of the screen.

2 Press ⇨ repeatedly until the desired source appears.

You can select between TV, AV1, AV2, AV3.

- If no video source (e.g. VCR or Camera) is connected, the PIP will be noisy.
- You cannot display an RGB source in the PIP.



Swapping the screens

- Press ⧉/◨ ⓪.

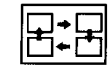
The two screens are swapped.

Changing channels if the TV picture is in the PIP

- First press ⬆, then the respective number buttons.

Changing the PIP position

There are four different positions of the small screen within the main screen. Select the PIP position in the Features menu.



1 Press MENU. Select the symbol using ▼. Push to ▶ to enter.
2 Select PIP position by pushing to ▶.
3 Select the desired position using ▼ or ▲. Press OK to select.
4 Press MENU to return to the normal TV screen.

Teletext

Most TV channels broadcast information via teletext. The index page of the teletext service (usually page 100) gives you information on how to use their service.

Make sure to use a TV channel with a strong signal, otherwise there may be Teletext errors.

Direct Access Functions

Switching Teletext on and off

1 Select the TV channel which carries the teletext service you want to view.

2a Press ☰ ⓮ once to switch teletext on.
The teletext menu is displayed.
b Press ☰ twice for Mix mode.
The TV broadcast and the Teletext display are overlapped.

3 Press ▢ ⓮ or press ☰ a third time to switch teletext off.

Selecting a Teletext Page

Direct Page Selection

- Input the three digits of the page number using the number buttons ❶.

If you have made a mistake:
Type in any three digits, then reenter the correct page number.

Page Catching

1 Select a teletext page which has several page numbers on it (e.g., the index page).

2 Press OK ⓫.
Page Catching is displayed.

3 Select the desired page number using ▲ or ▼ ⓭ and press OK.
The requested page is displayed after some seconds.

Selecting the next or the preceding page

- Press 🅰 ⓬ (Page +) or 🆅 (Page -).

Selecting the index page

- Press 🅸 ❷.

Selecting a subpage

A teletext page may consist out of several subpages. In this case an information line is displayed, showing the number of the subpages.

- Select the mode by pushing to ▲. Select the subpage by using ▲ or ▼.

Freezing a Teletext subpage

1 Press ⏯ ❹ or ⊕ ❸.
The symbol ⊕ is displayed and the subpage is not updated.

2 Press ☰ ❹ to resume normal teletext reception.

Using Fastext*

*depending on availability of service

Fastext lets you access pages with one button stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons ❶, ❷, ❸, ❹ on the Remote Control.

- Press the coloured button which corresponds to the colour in the colour-coded menu.

Using the Teletext Menu

This TV set has a menu-guided teletext system. When teletext is switched on you can use the joystick buttons to operate the teletext menu.

Select the menu functions as follows:

1 Press MENU ⓮.
The Teletext menu is superimposed on the teletext display.

2 Select the teletext function using ▲ or ▼ ⓫. Push to ▶ to enter.

Top/Bottom/Full

For convenient reading of a Teletext page you can enlarge it.
After having selected the function, a sub menu Top ▲ Bottom ▼ Full OK is displayed.

- Push to ▲ to enlarge the upper half of the screen, push to ▼ to enlarge the lower half. Press OK to resume the normal size. Press ☰ to resume the normal Teletext operation.

Text Clear

After having selected the function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol ☰ changes colour.

- Press ☰ to view the page.

Reveal

Some teletext pages contain hidden information (e.g., for a quiz), which you can reveal.
After having selected the function, the hidden information appears.

- Press ☰ to resume the normal Teletext operation.

Time Page*

*depending on availability of service

You can call up a time-coded page - such as an alarm page - at a time specified by you.
After having selected the function a sub menu is displayed.

1 Select On using ▲ or ▼. Push to ▶ to enter.

2 Enter the three digits of the desired page using the number buttons ❶.

3 Enter the four digits of the desired time using the number buttons ❶.

4 Press OK to store.
The time is displayed in the top left-handed corner of the screen.
At the requested time the page is displayed.